IN THE CLAIMS

Please cancel claims 1-42.

Please add the following claims.

43.(New) A data encryption apparatus comprising:

a memory that stores a racetrack array of random data and a plurality of encryption/decryption algorithms; and

a first controller operable to read said memory and to select a portion of said racetrack array based upon an array starting point and to utilize said selected portion of said racetrack array in at least one of said plurality of encryption/decryption algorithms.

44. (New) A data encryption apparatus as recited in claim 43, further comprising:

a second memory storing said racetrack array of random data and said plurality of encryption/decryption algorithms; and

a second controller operable to read said second memory and to select said portion of said racetrack array based upon said starting point and to utilize said portion of the racetrack array in at least one of the plurality of encryption/decryption algorithms.

45. (New) A data encryption apparatus as recited in claim 43, wherein said racetrack array is used to determine how many bytes of data are to be encrypted.

46. (New) A data encryption apparatus as recited in claim 45, wherein said racetrack array is used to encrypt the data by performing an ORing operation with the racetrack array data and the data to be encrypted.

47. (New) A data encryption apparatus as recited in claim 46, wherein said racetrack array is used to determine the next address used in the racetrack array.

48. (New) A data encryption system as recited in claim 47, wherein said portion of said array includes at least one byte identifying a length of data to be encrypted.

49.(New) A data encryption apparatus as recited in claim 48, wherein said portion of said racetrack array includes at least one byte identifying at least one of said plurality of encryption/decryption algorithms.

50. (New) A data encryption apparatus as recited in claim 49, wherein the starting point is different each time a lap is made around the racetrack array.

51. (New) A data encryption system as recited in claim 44, wherein said first processor includes a first controller and a first encryptor/decryptor.

52. (New) A data encryption system as recited in claim 51, wherein said second processor includes a second controller and a second encryptor/decryptor.



53. (New) A data encryption method for encrypting data wherein said data includes at least one of analog video, analog audio, digital video, digital audio and digital information, comprising the acts of;

receiving a starting address of a racetrack array of random data;

receiving data to be encrypted;

using a first portion of said racetrack array to determine how many bytes of data are to be encrypted, said first portion beginning at said starting address;

using a second through third portion of said racetrack array to determine a first and second encryption algorithms;

encrypting the determined number of bytes using the first encryption algorithm to form a first encrypted data stream; and

then encrypting said first encrypted data stream using the second encryption algorithm.

- 54. (New) A data encryption method as recited in claim 53, further comprising the step of using a fourth portion of said racetrack array to determine the next position on the racetrack array which will be used as said first portion of the racetrack array.
- 55. (New) A data encryption method as recited in claim 54, further comprising the step of determining a starting address by inputting two codes, one code from the encryptor of the data and one code from the decryptor of the data.



56. (New) A data encryption method as recited in claim 55, wherein the racetrack array and the encryption/decryption programs are stored in one memory.

57. (New) A data encryption method as recited in claim 56, wherein said encrypted data stream is decrypted with an identical racetrack array of random data.

58. (New) A data encryption method for encrypting data wherein said data includes at least one of analog video, analog audio, digital video, digital audio and digital information, comprising the steps of;

receiving a starting memory address;

receiving data to be encrypted;

using a first portion of said memory to determine how many bytes of data are to be encrypted, said first portion beginning at said starting address;

using a second through third portion of said memory to determine first and second encryption algorithms;

encrypting the determined number of bytes using the first encryption algorithm to form a first encrypted data stream; and

then encrypting said first encrypted data stream using the second encryption algorithm.



59.(New) A data encryption method as recited in claim 58, wherein said memory comprises a racetrack array of random data.

60. (New) A data encryption method as recited in claim 59, further comprising the step of starting at a different point in the racetrack array for consecutive laps around the racetrack.

- 61. (New) A data encryption method as recited in claim 60, further comprising the step of producing a third stream of encrypted data by subjecting a second stream of encrypted data to a third encryption algorithm.
- 62. (New) A data encryption method as recited in claim 61, further comprising the step of decrypting the encrypted data stream with an identical racetrack array of random data.